

REMARKS

The applicants have carefully reviewed the non-final office action mailed on February 9, 2006. The applicants thank the examiner for indicating that claims 3 and 4 disclose patentable subject matter. Claim 1-5, 7-9, 11-14, and 16 are respectfully submitted for reconsideration and passage to allowance.

In the non-final office action, the examiner rejected claims 1, 5, 7-9, 11, 12, and, 14 under 35 U.S.C. §103 as being unpatentable over U.S. Patent No. 6,046,908 to Feng ("Feng") in view of U.S. Patent No. 6,788,540 to Kruger ("Kruger"). The applicants respectfully traverses the examiner's rejection.

Independent claims 1 and 9 clearly recite that a printed circuit board includes at least one component on a first side of the printed circuit board and at least one optical component on a second side of the printed circuit board.

Feng is generally teaches a heat-radiating structure of power adapter, including a printed circuit board and a thermal plate. The housing includes multiple vents.. (See Figures 2, 2A and 3; Column 3, lines 14-29). Feng does not teach or suggest a printed circuit board with a component on a first side and a component on a second side of the printed circuit board, and a heat sink in thermal contact with the component on the second side of the printed circuit board and the housing to conduct heat from the optical component to the housing according to independent claim 1. Claim 9 recites substantially the same limitations as claim 1. Accordingly, Feng does not teach or suggest all of the elements of independent claims 1 and 9 and therefore does not teach or suggest these claim.

Kruger does not cure the deficiencies of Feng. Kruger merely teaches separate heat dissipating element acting as a heat sink may be placed over top of the cage in contact with the

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transceiver module. Kruger does not teach a configuration as recited in claims 1 and 9.

Specifically, Kruger fails to disclose a printed circuit board that includes at least one component on a first side of the printed circuit board and at least one optical component on a second side of the printed circuit board, and a heat sink that is in thermal contact with the optical component on the second side of the printed circuit board (having a component on a first side of the printed circuit board) and the housing to conduct heat from the optical component to the housing and a thermal plate is coupled between the housing and the printed circuit board. The combination of Feng and Kruger fails to teach dissipating heat from components on two sides of a printed circuit board using a heat sink on one side and a thermal plate on the other side. Accordingly, the combination of Feng and Kruger fails to teach or suggest alone or in combination the elements of independent claims 1 and 9. Accordingly, the Examiner has not made out a prima facie case of obviousness.

Claims 5, 7 and 8 depend from claim 1 and claims 11, 12 and 14 depend from claim 9. Accordingly, claims 5, 7, 8, 11, 12 and 14 are not taught for the reasons discussed above with respect to claims 1 and 9.

In the non-final Office Action the examiner rejected claim 2, 13, and 16 under 35 U.S.C. §103 as being unpatentable over U.S. Patent No. 6,046,908 to Feng ("Feng") in view of U.S. Patent No. 6,788,540 to Kruger ("Kruger") and in further view of U.S. Patent No. 4,504,156 to Currie.

Currie does not cure the deficiencies of Feng and Kruger. Accordingly, claims 2, 13 and 16 are not taught for the same reasons discussed above with respect to claims 1 and 9.

For the foregoing reasons, reconsideration and allowance of the pending claims is respectfully requested. If the Examiner has any questions, the Examiner is encouraged to contact the undersigned attorney.

In view of the above, it is respectfully submitted that the present invention is allowable over the references relied upon in the Office Action. Accordingly, favorable reconsideration of this case and early issuance of the Notice of Allowance are respectfully requested. Should the Examiner feel further communication would facilitate prosecution, he is urged to call the undersigned at the phone number provided below. The Commissioner is hereby authorized to charge any insufficient fees or credit any overpayment associated with this application to Deposit Account No. 19-5127 (15772.0009).

Respectfully submitted,

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By: 

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